

2/15/2018

Print



Dart Hawkesbury
1270 Aberdeen St Hawkesbury, ON K6A 1K7 Canada
Tel (613) 632-5200

Purchasing Receipts

PO No	Supplier	Line Item No	Rel No	Terms	Purchased Item	Description	For Part No	Project	Equipment ID	Order Qty	Due Date	Received Quantity	Accounting Job No	Serial No	Status	Receive Date	Price/Unit	Ag Da
P0038993	THY001-VC	1	1	Net 30	M6061T6B0.750X00.125	6061-T6 Bar .750 X .125 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				80	2/14/2018	80		8042709	Stock	2/15/2018	\$ 0.72 / ft	
		3			M6061T6B1.500X04.000	6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft				12		12		8042710	Stock	2/15/2018	\$ 18.78 / ft	
Total:										92		92						

Plex 2/15/2018 1:48 PM Dart.Dubois.Pascal



thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE



①
DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 02/14/2018
DOC. NO: 2405749557*
BOL. NO: 2405749557
ORDER NO: 1403522958
YOUR P/O: 038993
CUSTOMER NO: 10058125
Route: **303UA**
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUP
P.COM

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **
** REFERENCED ON IT **

Deliveries are carried out for your account and risk acc. to our Gen. Terms & Cond. of Delivery and Payment.

ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO
------	-------------	-----------------	------------

0010	ALREC00630	1 PC	1008277843
------	------------	------	------------

6061 T6511 Aluminum Extruded Rectangular
1.50000 (+-.014) X 4.0000 (+-.034) X 144 Mill Length
Nominal Chemistry/Act Physical
Standard Packaging

TAGNUM	QTY	UOM	VEND	VENDPO	HLOT
2001303921	1	PC	-----	-----	Z00652041

SAE AMS-QQ-A-200/8|1997;ROHS COMPLIANT;ASTM B 221|2014

Total Gross Weight

91.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 02/14/2018
DOC. NO: 2405749557*
BOL. NO: 2405749557
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YOUR P/O: 038993
CUSTOMER NO: 10058125
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CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUP
P.COM

CERTIFICAT DE CONFORMITÉ/CERTIFICATE OF COMPLIANCE

*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

*Nous certifions que le document reproduit ici est une copie conforme du rapport fourni par le fournisseur du matériel où les données résultent de l'analyse faite par un laboratoire qualifié/ We certify that the document reproduced here is true to the report provided by the equipment supplier where the data are the result of analysis by a qualified laboratory.

David Noordine - Director of Quality Assurance





thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE



DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 02/14/2018
DOC. NO: 2405749556*
BOL. NO: 2405749556
ORDER NO: 1403522958
YOUR P/O: 038993
CUSTOMER NO: 10058125
Route: 303UA
CONTACT: Stan Ivers
TEL: 905-532-1350 ext 21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUP
P.COM

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** REFERENCED ON IT **

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ITEM	DESCRIPTION	NET QTY1 / QTY2	PACKAGE NO
------	-------------	-----------------	------------

0010	ALREC00778	4 PC	1008277841
------	------------	------	------------

6061 T6511 Aluminum Extruded Rectangular
0.12500 (+-.007) X 0.7500 (+-.010) X 240 Mill Length
Nominal Chemistry/Act Physical
Standard Packaging

TAGNUM	QTY	UOM	VEND	VENDPO	HLOT
PCS					
2001303919	4	PC	CAN ART A 5400372675	3B7050	4

SAE AMS-QQ-A-200/8|1997;ROHS COMPLIANT|ASTM B 221|2014

Total Gross Weight

28.000 lb

All items, not declared as partial delivery, are final quantities.

Delivery Terms: PPD gem. Incoterms 2000 Prepaid TRANSFER TRUCK



thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DELIVERY NOTE

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7

DATE: 02/14/2018
DOC. NO: 2405749556*
BOL. NO: 2405749556
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*thyssenkrupp Matériaux NA certifie que le matériel décrit ci-dessus est conforme aux dessins ou spécifications exigés sur le bon de commande et qui sont en vigueur à la date ou la commande a été acceptée./ thyssenkrupp Materials NA certifies that the material described above is in accordance with the drawings or specifications called for on said order that are current on the date order was accepted.

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David Noordine - Director of Quality Assurance



Dart Aerospace Ltd.
1270 Aberdeen St
Hawkesbury, ON
K6A 1K7
Canada

Tel (613) 632-5200

PURCHASE ORDER **PO038993**

Supplier: THY001-VC
Thyssenkrupp Materials CA Ltd
O/A VPK Metal- c/o T27540
PO Box 4275, Postal "A"
Toronto
ON
M5W 5V8 Canada
Phone: 905 669 9444
Fax: 905 738 9033

PO No: PO038993

PO Date: 2/8/18

Due Date: 2/14/18

Purchase Order

Revision:

Revision Date:

Ship-To Contact: Lavoie, Chantal
Phone: clavoie@dartaero.com

E-MAILED
FEB 09 2018

Ship To: 1270 Aberdeen Street
Hawkesbury
ON
K6A 1K7 Canada
Phone: 613-632-5200

Via: Ground

Pymt Terms: Net 30

Freight Terms:

Special Comments: quote no. 1202990461

Items

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
1	M6061T6B00750X00.125		6061-T6 Bar .750 X .125 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	80 ft	0 ft	80 ft	\$0.72/ft	\$57.60
						80			FEB 15 2018	
									DAS 11 9-89	
2	M6061T6B1.000X12.000		6061-T6 Bar 1.00 X 12.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	12 ft	0 ft	12 ft	\$37.22/ft	\$446.64
3	M6061T6B1.500X04.000		6061T6 Bar 1.500 X 4.00 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	12 ft	0 ft	12 ft	\$18.78/ft	\$225.36
						12			FEB 15 2018	
									DAS 11 9-89	

Items										
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (CAD)	Extended Price
4	M6061T6B2.000X03.500		6061-T6 Bar 2.00 X 3.50 : MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR PER QQ-A-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221 receive ft	Firmed	2/14/18	12 ft	0 ft	12 ft	\$22.26/ft	\$267.12
5	M6061T6S0.3125X6.250		6061-T651 Sheet 0.3125" Thick Plate x 6.250" Wide	Firmed	2/14/18	12 ft	0 ft	12 ft	\$12.40/ft	\$148.80
Grand Total:										\$1,145.52

Order Notes

Procurement Quality Clauses

A005 right of entry
A012 chemical and physical test report
A016 personnel qualification
A017 raw material identification (as applicable)
A026 certification of material conformance
A041 quality management system
A042 dart notification by supplier
A043 retention of quality documents

A048 counterfeit parts avoidance, detection, mitigation and disposition program

A049 supplier awareness

Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit www.dartaerospace.com for further explanation.

Plex 2/9/18 11:07 AM dart.lavoie.chantal



QUOTE

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

TEL: 613-632-5200
FAX: 613-632-5246

DATE: 02/05/2018
QUOTE NO: 1202990461
YOUR INQUIRY:
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200
CUSTOMER NO: 10058125
DEPARTMENT: CAN TOR INS 01
CONTACT: Teresa Volpe
TEL:
FAX:
EMAIL: Teresa.Volpe@thyssenkrupp.com

PAGE 1 OF 4

Thank you for allowing us to quote on your requirement. Delivery contingent upon date ordered.

Delivery Address

DART AEROSPACE LTD, 1270 ABERDEEN ST, HAWKESBURY, ON K6A 1K7, CANADA
Unloading Point: UNLOAD POINT 1

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0010	ALFLR01588 2024 Aluminum T3 Sheet 0.12500 (+-.0035) X Width 48.0000 (+-.125) X Length 144 (+-.125) ASTM B209 2014 ROHS COMPLIANT SAE AMS 4037 Q SAE AMS-QQ-A-250/4B 2015 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 03/08/2018 12-15 DAYS FOR DELIVERY STOCK IN LAX	2 172.800	PC LB	491.01 CAD 1 PC	982.02
0020	ALREC00246 6061 T6511 Aluminum Extruded Rectangular 0.37500 (+-.008) X 2.5000 (+-.024) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	1 12 13.236	PC FT LB	5.42 CAD 1 FT	65.04
0030	ALFLR74857 6061 Aluminum T651 Plate 0.31200 X Width 6.2500 +.125/- .000 X Length 144.5000 Plate Sawing - Standard Actual Chemistry/Act. Physical Standard Packaging Delivery Date: 02/09/2018	1 27.614	PC LB	155.00 CAD 1 PC	155.00



QUOTE

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

DATE: 02/05/2018
QUOTE NO: 1202990461
YOUR INQUIRY:
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200

PAGE 2 OF 4

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0040	ALREC00778 6061 T6511 Aluminum Extruded Rectangular 0.12500 (+-.007) X 0.7500 (+-.010) X 240 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	4 80 8.800	PC FT LB	0.72 CAD 1 FT	57.60
0050	ALREC13956 6061 T6511 Aluminum Extruded Rectangular 1.00000 X 12.0000 X 144 Mill Length Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	1 12 169.344	PC FT LB	37.22 CAD 1 FT	446.64
0060	ALREC00191 6061 T6511 Aluminum Extruded Rectangular 1.00000 (+-.012) X 8.0000 (+-.054) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	1 12 112.896	PC FT LB	25.87 CAD 1 FT	310.44
0070	ALREC35126 6061 T6511 Aluminum Extruded Rectangular 3.00000 X 14.0000 X 95.5000 Mill Length Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	1 7.958 393.078	PC FT LB	130.28 CAD 1 FT	1,036.77

**OFFERING. ITEM REQUESTED
NOT AVAILABLE/ SUBJECT TO
PRIOR SALE**



QUOTE

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

DATE: 02/05/2018
QUOTE NO: 1202990461
YOUR INQUIRY:
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200

PAGE 3 OF 4

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0080	ALREC00630 6061 T6511 Aluminum Extruded Rectangular 1.50000 (+-.014) X 4.0000 (+-.034) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	1 12 84.672	PC FT LB	18.78 CAD 1 FT	225.36
0090	ALREC00023 6061 T6511 Aluminum Extruded Rectangular 1.00000 (+-.012) X 6.0000 (+-.044) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/08/2018	4 48 338.688	PC FT LB	18.17 CAD 1 FT	872.16
0100	ALREC00245 6061 T6511 Aluminum Extruded Rectangular 3.00000 (+-.024) X 6.0000 (+-.044) X 48 RBW Cutting - Standard +.125/- .000 Cut To Length 48.0000 " 1 ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Delivery Date: 02/09/2018 * OFFERING	1 4 84.672	PC FT LB	64.55 CAD 1 FT	258.20



QUOTE

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

DATE: 02/05/2018
QUOTE NO: 1202990461
YOUR INQUIRY:
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200

PAGE 4 OF 4

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0110	ALREC00692	1	PC	22.26 CAD	267.12
	6061 T6511 Aluminum Extruded Rectangular	12	FT	1 FT	
	2.00000 (+-.024) X 3.5000 (+-.024) X 144 RBW	100.800	LB		
	Cutting - Standard +.125/-.000				
	Cut To Length				
	144.0000 " 1				
	ASTM B 221 2014 ROHS COMPLIANT SAE				
	AMS-QQ-A-200/8 1997 Nominal Chemistry/Act				
	Physical				
	Standard Packaging				
	Delivery Date: 02/09/2018				
	Weight total		1,506.600 LB		
	Items total				4,676.35
	Net Amount				4,676.35
	GST				607.94
	TOTAL				5,284.29

Payment Terms: Within 30 days without deduction
Delivery Terms: PPD (gem. Incoterms 2000) PREPAID
Shipping Condition: General Delivery

COMPUTER GENERATED OFFER AND VALID WITHOUT SIGNATURE.

Please review the above items for accuracy.
Prices are quoted as price in effect at time of shipment.
Our standard terms and conditions apply should this quote become an order.

For terms and conditions please refer to website at <http://www.tkmna.com/tkmna/Resources/CustomerService/index.html>

Any obvious damage must be noted on the material delivery documentation at the time of receipt.

Tax exemption status documentation must be forwarded to credit department prior to order approval.
All returned material subject to restock charge



ORDER CONFIRMATION

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5G6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

TEL: 613-632-5200
FAX: 613-632-5246

DATE: 02/09/2018
ORDER NO: **1403522958 ***
YOUR P/O: 038993 dtd. 02/05/2018
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200
CUSTOMER NO: 10058125
DEPARTMENT: CAN TOR INS 01
CONTACT: Stan Ivers
TEL: 905-532-1350 ext -21350
FAX: 905-738-9033 ext 9033
EMAIL: STAN.IVERS@THYSSENKRUPP.COM
* please state on all documents

We thank you for your order which we confirm as follows:

Delivery Address

DART AEROSPACE LTD, 1270 ABERDEEN ST, HAWKESBURY, ON K6A 1K7, CANADA
Unloading Point: UNLOAD POINT 1

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0030	ALFLR74857 6061 Aluminum T651 Plate 0.31200 X Width 6.2500 +/- .125/- .000 X Length 144.5000 Plate Sawing - Standard Actual Chemistry/Act. Physical Standard Packaging Order Number: 038993 Delivery Date: 02/16/2018 Energy Surcharge	1 27.614	PC LB	155.00 CAD 1 PC	155.00 25.00
	Item total:				180.00
0040	ALREC00778 6061 T6511 Aluminum Extruded Rectangular 0.12500 (+/- .007) X 0.7500 (+/- .010) X 240 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/14/2018	4 80 8.800	PC FT LB	0.72 CAD 1 FT	57.60



ORDER CONFIRMATION

thyssenkrupp Materials NA, 2821 Langstaff Road, Concord, ON L4K 5C6

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

DATE: 02/09/2018
ORDER NO: 1403522958 *
YOUR P/O: 038993 dtd. 02/05/2018
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200
* please state on all documents

PAGE 2 OF 3

ITEM	DESCRIPTION	QTY1 QTY2 QTY3	UOM UOM UOM	PRICE CUR PER UOP	TOTAL CAD
0050	ALREC13956 6061 T6511 Aluminum Extruded Rectangular 1.00000 X 12.0000 X 144 Mill Length Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/22/2018	1 12 169.344	PC FT LB	37.22 CAD 1 FT	446.64
0080	ALREC00630 6061 T6511 Aluminum Extruded Rectangular 1.50000 (+-.014) X 4.0000 (+-.034) X 144 Mill Length ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/14/2018	1 12 84.672	PC FT LB	18.78 CAD 1 FT	225.36
0110	ALREC00692 6061 T6511 Aluminum Extruded Rectangular 2.00000 (+-.024) X 3.5000 (+-.024) X 144 RBW Cutting - Standard +.125/- .000 Cut To Length 144.0000 " 1 ASTM B 221 2014 ROHS COMPLIANT SAE AMS-QQ-A-200/8 1997 Nominal Chemistry/Act Physical Standard Packaging Order Number: 038993 Delivery Date: 02/20/2018	1 12 100.800	PC FT LB	22.26 CAD 1 FT	267.12
Weight total		391.230 LB			
Items total					1,176.72
Net Amount					1,176.72
GST					152.98
TOTAL					1,329.70



ORDER CONFIRMATION

thyssenkrupp Materials NA 2821 Langstaff Road, Concord, ON L4K 5C8

DART AEROSPACE LTD
1270 ABERDEEN ST
HAWKESBURY ON K6A 1K7
Canada

DATE: 02/09/2018
ORDER NO: **1403522958 ***
YOUR P/O: 038993 dtd. 02/05/2018
ATTENTION TO: CHANTAL LAVOIE
TEL: 613-632-5200
* please state on all documents

PAGE 3 OF 3

Payment Terms: Within 30 days without deduction
Delivery Terms: PPD (gem. Incoterms 2000) TRANSFER TRUCK
Shipping Condition: General Delivery

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Tax exemption status documentation must be forwarded to credit department prior to order approval.
All returned material subject to restock charge

Material Test Report

Ship To: ThyssenKrupp Materials NA
2821 Langstaff Road
Concord, ON L4K 5C6

Manifest: 332218

Ticket:
5568056

Our Order: **440212 - 3**

Cust P.O.: 286874

Die: ES05513

Part: 05513-000-144

Alloy Temper: 6061 T6511

Description: .250 x .750

Print Date: 11/7/17

Chemical Composition Range

6061	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	OtherEach	OtherTotal
Min	0.40		0.15		0.8	0.04				
Max	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.15

Mechanical Properties

Strength ksi

<u>Sample ID</u>	<u>Cast #</u>	<u>Lot #</u>	<u>Test Date</u>	<u>Ultimate Tensile</u>	<u>Yield 2% offset</u>	<u>Elongation 2" gage length</u>
429099	3B7050	B11	11/7/17	44.57	41.45	14.8

Applicable Specifications: ASTMB221-14 AMS-QQ-A200/8A

Country of Origin: 85 Parkshore Drive, Brampton, Ontario CANADA L6T 5M1

Can Art Aluminum Extrusion Inc. certifies that materials shipped under this order have been inspected and tested in accordance with Aluminum Association and agreed upon customer specifications. Can Art assumes no liability for additional costs which may be incurred during the customer's manufacture and sale of its products, and is subject only to the replacement of any materials not within agreed upon specifications provided written notification is received by Can Art within 30 days from the date of shipment.


Evan Eng, Quality Assurance Manager

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061H6BL500X400
 DATE: FEB 15 2018

PO / BATCH NO.: C38443/5042710

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 12'
 QUANTITY INSPECTED: 12'
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 1.500
 THICKNESS RECEIVED: 1.500
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Aston B271
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # ZC0652C41
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____		
DATE: <u>9-89 FEB 15 2018</u>	DATE: _____		

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR

SPECIFICATION:

QQ-A-225/8 OR AMS-QQ-A-225/8 (OR AMS 4117/4128/4115/4116)
OR QQ-A-200/8 OR AMS-QQ-A-200/8 (OR AMS 4160)
OR ASTM B211 OR ASTM B221

PART NUMBER:

M6061T6B | T.TTT | X | WWW.WWW |
THICK | WIDTH

WHERE "T.TTT" = THICKNESS IN INCHES
"WWW.WWW" = WIDTH IN INCHES

E.G. 1.0" X 12.0" BAR = M6061T6B1.000X12.000

RELEASED
2009-09-03
ND

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (ZND7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.08.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	M6061T6B		
APPROVED	TITLE		
DE APPR.	6061-T6 BAR		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA REV. B SHEET 1 OF 1 SCALE NTS COPYRIGHT © 2001 BY DART AEROSPACE LTD THIS DRAWING IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

PO/Rel

BL PEC-000000-000

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Signed by: _____ Pg 1/1

Attn:

PART NO.

KAISER
ALUMINUM
FABRICATED PRODUCTS

Best in Class

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CUSTOMER PO NUMBER: PEC-286509-1		CUSTOMER PART NUMBER: 472/STK		PRODUCT DESCRIPTION: 1.500 X 4.000 SC RECT BAR	
KAISER ORDER NUMBER: 6038888	LINE ITEM: 001	SHIP DATE: 09/19/2017	KAISER LOT NUMBER: Z00652041	ALLOY: 6061	TEMPER: T6511
WEIGHT SHIPPED: 1016.000 LB	QUANTITY: 12.000 PCS	B/L NUMBER: 620356	DIAM/DA/THKNS: 1.500	WIDTH: 4.000	LENGTH: 12.000 FT
SHIP TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA			SOLD TO: THYSSENKRUPP CANADA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		

Actual Physical Properties

REFERENCE	DASH#	SAMPLE#	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00652041	0001	0001	49.7	46.0	15.2	RE 92	N/A	N/A
Z00652041	0001	0002	50.6	47.3	13.4	RE 93	N/A	N/A
Z00652041	0002	0001	51.8	48.8	13.6	RE 93	N/A	N/A
Z00652041	0002	0002	50.1	46.7	15.1	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.00	NA	NA	NA	0.00	0.00
107696	.74	.29	.30	.11	.93	.09	.07	.03	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-14 STENCILED ASME-SB221 2009 SECT II AMS-QQ-A-200/8A UNS#A96061 (T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA

MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Aimee L. Macnowski, Quality & Technology Manager

Aimee L. Macnowski

Plant Serial: 00303453

Kaiser Order Number: 6038888

Line Item: 001

Page 1 of 1

MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M6061T6B0.75x0.125
 DATE: FEB 15 2018

PO / BATCH NO.: 038993/5042709

MATERIAL CERT REC'D: YES
 QUANTITY RECEIVED: 80"
 QUANTITY INSPECTED: 80"
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.125
 THICKNESS RECEIVED: 0.125
 SHEET SIZE ORDERED: N/A
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)		COMMENTS
SURFACE DAMAGE	Y	(N)	
CORRECT FINISH	(Y)	N	
CORROSION	Y	(N)	
CORRECT GRAIN DIRECTION	(Y)	N	
CORRECT MATERIAL PER M-DRAWING	(Y)	N	Aston D221
CORRECT THICKNESS	(Y)	N	
PHOTO REQUIRED	Y	(N)	
CORRECT REF # TO LINK CERT	(Y)	N	Heat # 387050
CORRECT MATERIAL IDENTIFICATION	(Y)	N	
CORRECT M# ON THE MATERIAL	(Y)	N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	Y	(N)	
DOES THIS REQUIRE AN EXTRUSION REPORT	Y	(N)	

CUT SAMPLE PIECE OF MATERIAL AND PREFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
	HRC	HRB	DUR A	DUR D	WEBSTER
TYPE OF MATERIAL					
SIZE OF TEST SAMPLE					
HARDNESS / DUROMETER READING					

testers located in the Quality Office

QC 18 INSPECTION		ENGINEERING SIGNOFF (if required)	
INSPECTED BY: <u>DAS 11</u> DATE: <u>9-89 FEB 15 2018</u>	SIGNED OFF BY: _____ DATE: _____		

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M6061T6B | T.TTT | X | WWW.WWW |
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WHERE "T.TTT" = THICKNESS IN INCHES
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RELEASED
R 2009-08-03
MD

B	REMOVE QQ-A-250/11 OPTION, REFORMAT NOTES, ADD ASTM B211/B221 (2N D7-1)	CP	09.07.13
A	NEW ISSUE	DS	01.06.08
REV	DESCRIPTION	BY	DATE
DESIGN	DS		
DRAWN	DS		
CHECKED	DS		
MFG. APPR.	DS		
APPROVED	DS		
DE APPR.	DS		
DATE	09.07.13		
DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA			
DRAWING NO. M6061T6B		REV. B	
TITLE 6061-T6 BAR		SHEET 1 OF 1	
DATE		SCALE NTS	
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